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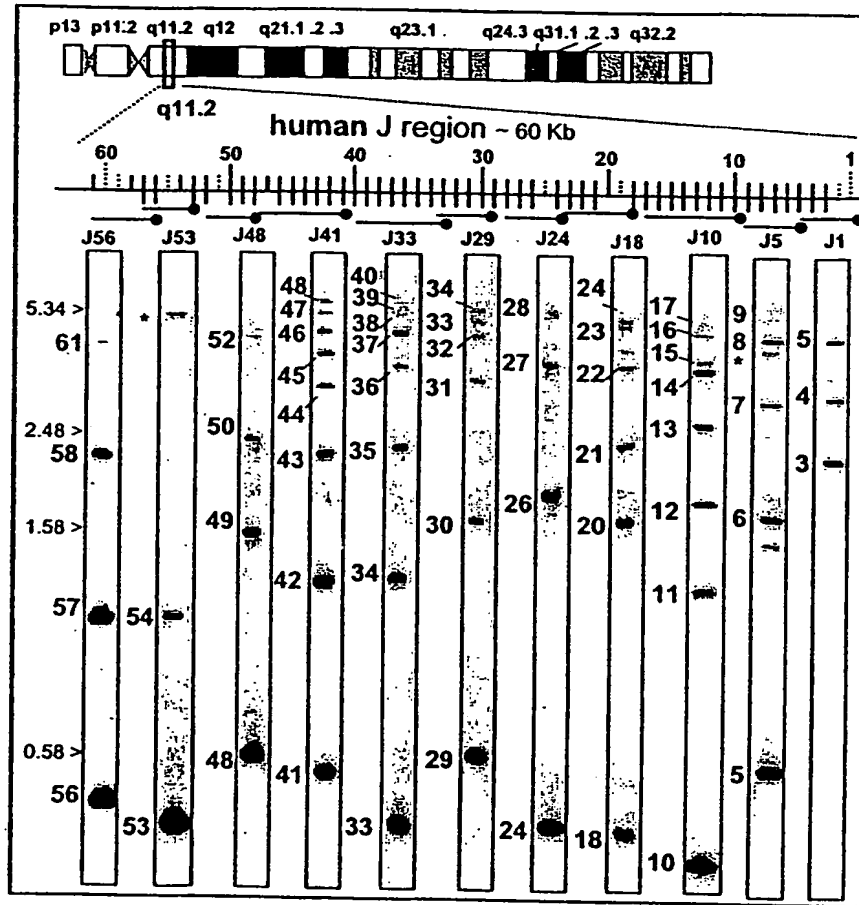


FIGURE 1

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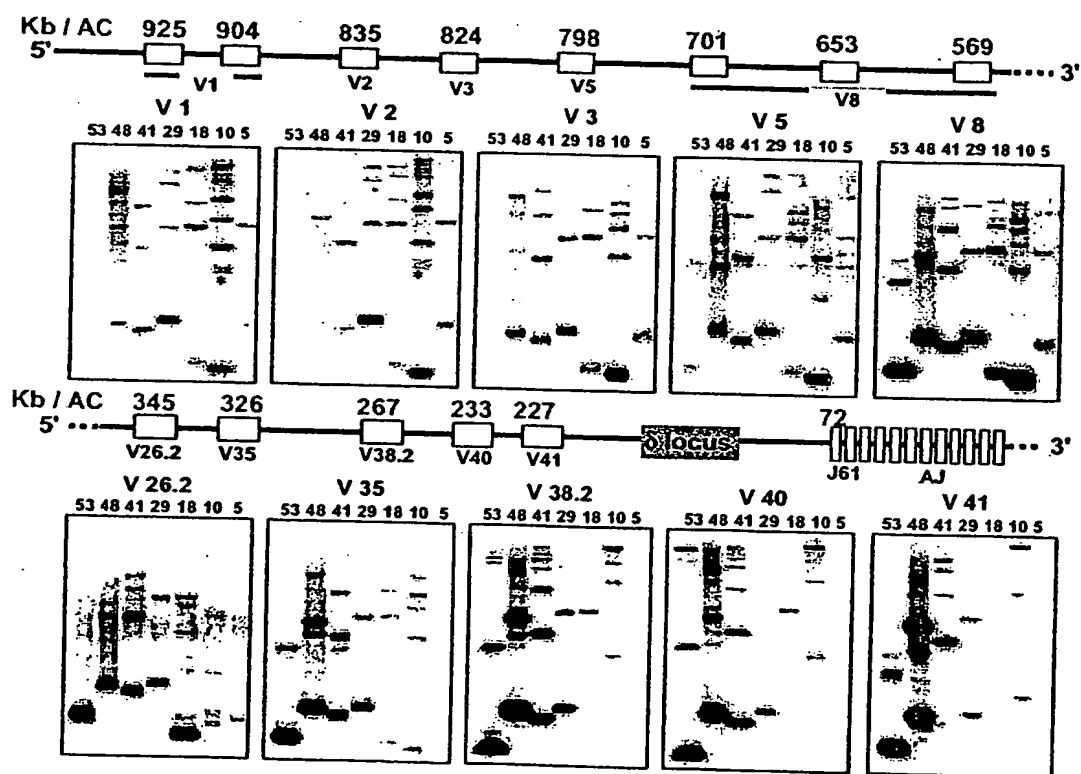


FIGURE 2

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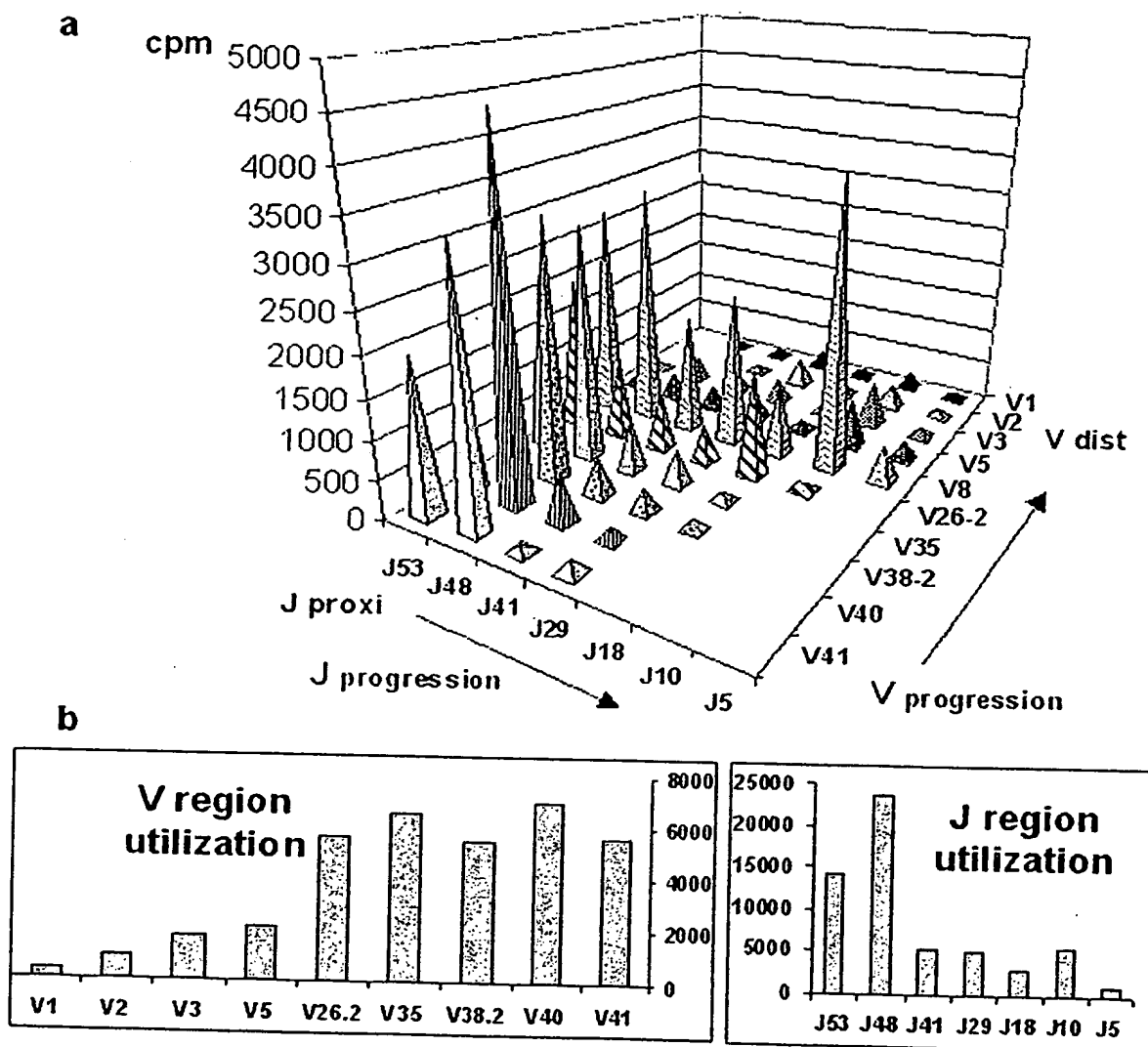


FIGURE 3

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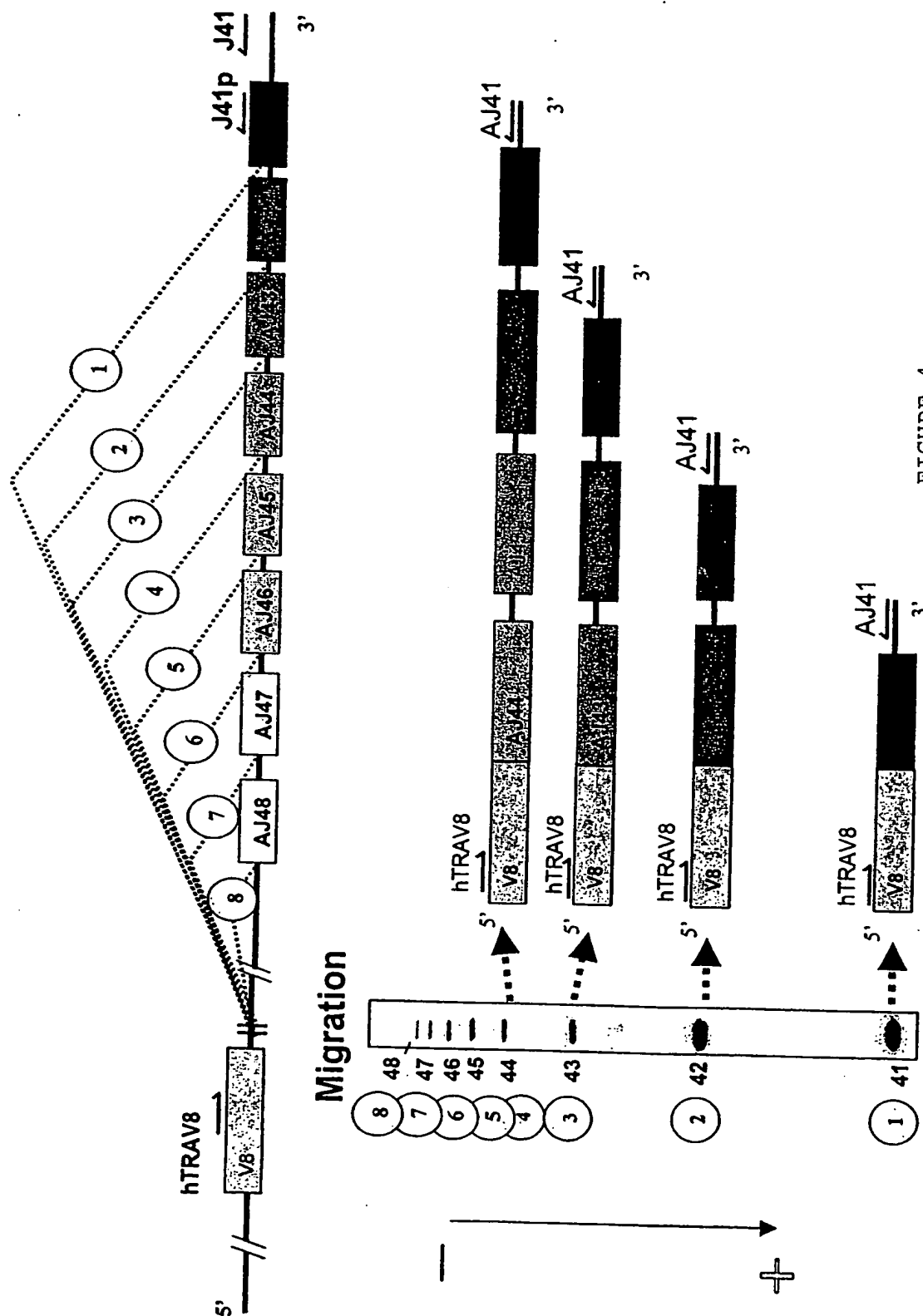


FIGURE 4

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| hV gene | Heptamer | % | Spacer | % | Nonamer | RSS Score | Dis/Cd (Kb) | Signal Outy | J |
|-----------|----------|-----|--------------------------|----|-----------|-----------|-------------|-------------|------------|
| hV1-1 | CACAGTG | 100 | ACTATGAGGCCCTGCTTAAGTGTG | 56 | CCAAATTC | 56 | 72 | 925 | J10 |
| hV1-2 | CACGGTG | 86 | ACTATGAGGCCCTCTTAGCTGCA | 63 | CCAAATTC | 56 | 69 | 904 | J10 |
| hV2 | CACAGAG | 86 | GCAGGGACCCATGAAGAGCTGA | 56 | ACAGAAACA | 78 | 75 | 835 | J10 |
| hV3 | CACACTG | 86 | ATAGGGGCTGCAGGGGAGCAGA | 56 | ACACAAACT | 89 | 80 | 824 | J10 |
| hV5 | CACATTC | 86 | CTTCTCAGCCACCTGTATCCTGT | 94 | ACCCAAACC | 100 | 93 | 798 | J10 |
| hV8-2 | CACAGTG | 100 | CTTGAGACTGCAGGAGAGCTGAA | 50 | CAGAGCCT | 33 | 63 | 701 | All J area |
| hV8-4 | CACAGTG | 100 | CTTGAGACTGCAGGAGAGCTGAA | 50 | CATAAACCT | 33 | 63 | 653 | |
| hV8-6 | CACAGTG | 100 | CCTGAGACTGCAGGAGAGCTGAA | 44 | CACAAACCT | 44 | 65 | 569 | |
| hV26-2 | CACAGTG | 100 | GGACAGATGCGGCTGAGCTGTG | 56 | CAATATCTG | 33 | 64 | 345 | J48 |
| hV35 | CACAGTG | 100 | CTCCCCTAAACACCTGAGCCTGT | 94 | ACTCAAAGT | 78 | 90 | 326 | J48 |
| hV38-2 | CACAGTG | 100 | AGACAAGCAACAGGGAGAGGCTT | 31 | ACAGAAACC | 89 | 78 | 267 | J48 |
| hV40 | CAGTGTG | 86 | TTAAAAGCACAGTGCAGCTATA | 44 | CAAAACCT | 44 | 60 | 233 | J48 |
| hV41 | CACAGTG | 100 | CTCCCAGGCACTGCGAGCCCT | 94 | ACCTAAACT | 78 | 90 | 227 | J48 |
| Consensus | CACAGTG | | -T---CAG-CA-CTG-AACCTGT | | ACACAAACC | | % | | |

FIGURE 5

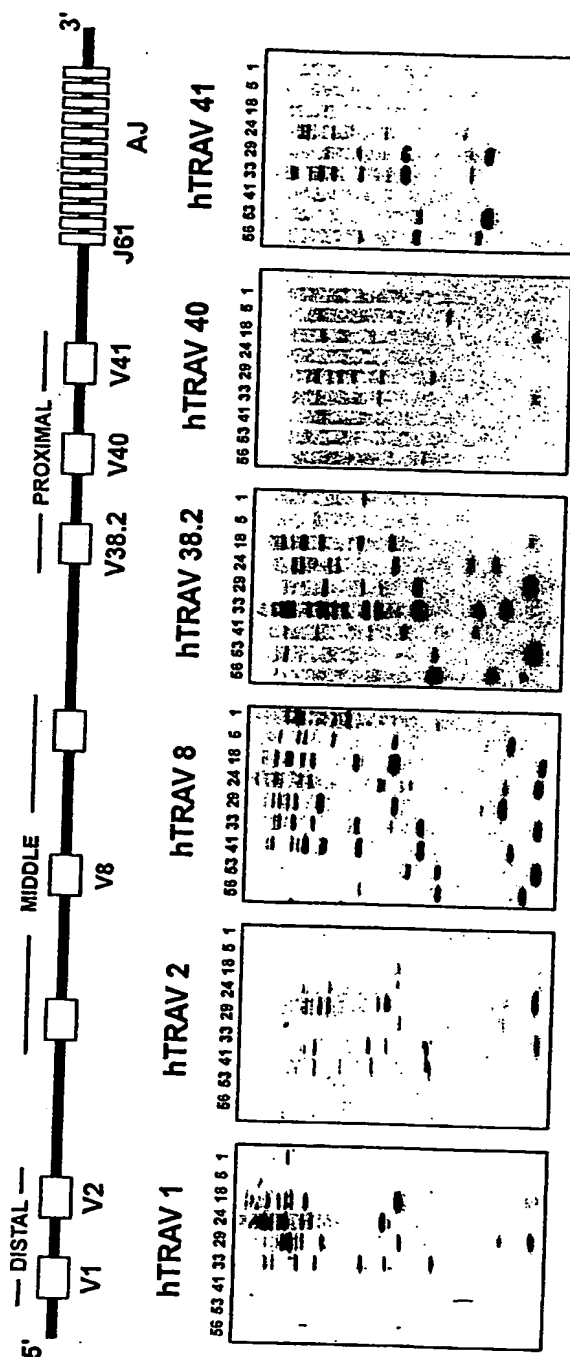


FIGURE 6

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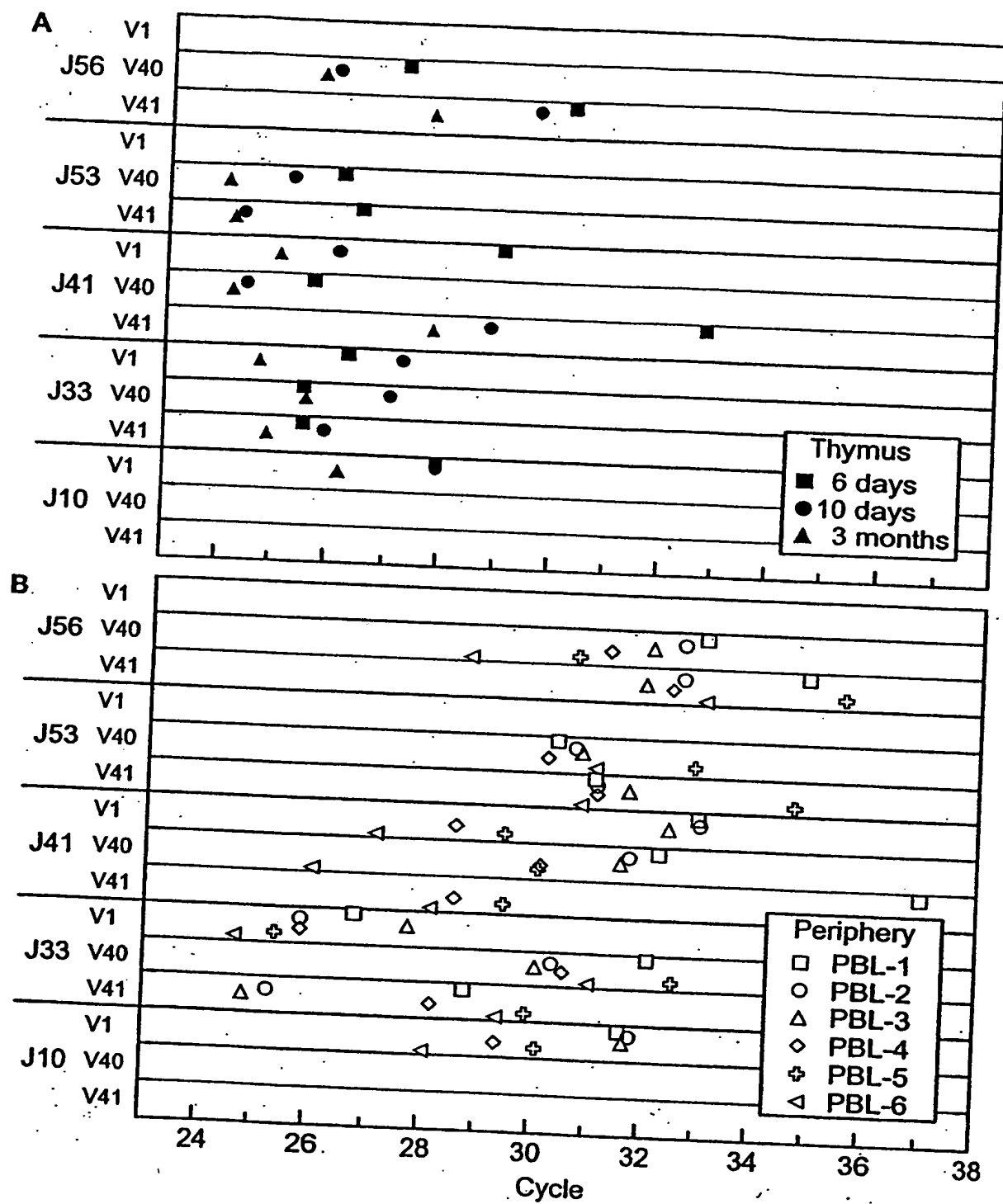


FIGURE 7

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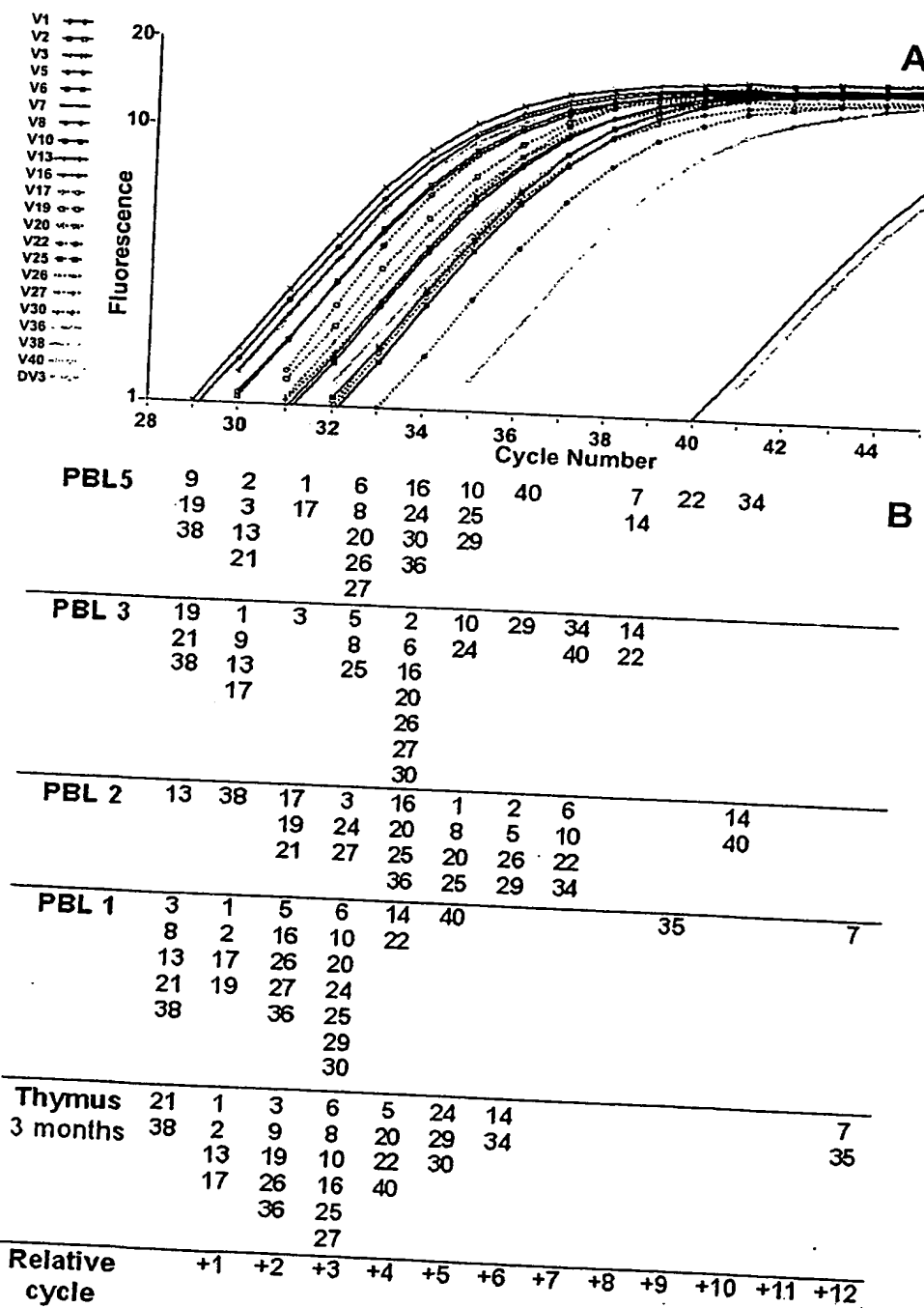


FIGURE 8

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